

What is claimed is:

1. A radio network controller for controlling a radio base station device for making a communication with a movable terminal through a radio link, comprising:
 - a block for controlling said radio base station device, said block being physically divided into two subblocks, wherein a control dependent on a particular radio transmission scheme is performed only in one of said two subblocks.
2. A radio network controller for controlling a radio base station device for making a communication with a movable terminal through a radio link, comprising:
 - first control means for performing a control independent of any radio transmission scheme; and
 - second control means physically separated from first control means for performing a control dependent on a particular radio transmission scheme.
3. A radio network controller comprising:
 - first control means for controlling a radio base station device for making a communication with a movable terminal through a radio link, and for controlling a transfer of a control signal or signalling; and
 - 5 second control means physically separated from said first control means for controlling a transfer of user data associated with said terminal,

said second control means having a radio transmission scheme dependent control function.

4. A radio network controller for controlling a radio base station device for making a communication with a movable terminal through a radio link, comprising:

- first control means for performing a control related to terminal resources for said terminal; and
- second control means physically separated from said first control means for performing a control related to base station resources for said radio base station device.

5. A radio network controller according to claim 2, wherein:

- said first control means comprises at least:
 - common radio resource managing means for managing a radio access network environment to optimize a network load; and
 - mobile controller for establishing and releasing a communication channel, and
- said second control means comprises at least:
 - cell controller for controlling a permission to a radio access to each radio base station device, as well as congestion and assignment of said each radio base station device;
 - cell communication gateway for transmitting individual radio channel signals and multiplexing/demultiplexing common radio channel signals; and

a user radio gateway for performing encryption and decryption of
15 radio channels, compression of a header, multiplexing/demultiplexing, and a
retransmission control.

6. A radio network controller according to claim 3, wherein:
said first control means comprises at least:
common radio resource managing means for managing a radio
access network environment to optimize a network load; and
5 mobile controller for establishing and releasing a communication
channel, and
said second control means comprises at least:
cell controller for controlling a permission to a radio access to
each radio base station device, as well as congestion and assignment of
10 said each radio base station device;
cell communication gateway for transmitting individual radio
channel signals and multiplexing/demultiplexing common radio channel
signals; and
a user radio gateway for performing encryption and decryption of
15 radio channels, compression of a header, multiplexing/demultiplexing, and a
retransmission control.

7. A radio network controller according to claim 4, wherein:
said first control means comprises at least:
common radio resource managing means for managing a radio
access network environment to optimize a network load; and

5 mobile controller for establishing and releasing a communication channel, and

 said second control means comprises at least:

 cell controller for controlling a permission to a radio access to each radio base station device, as well as congestion and assignment of

10 said each radio base station device;

 cell communication gateway for transmitting individual radio channel signals and multiplexing/demultiplexing common radio channel signals; and

15 a user radio gateway for performing encryption and decryption of radio channels, compression of a header, multiplexing/demultiplexing, and a retransmission control.

8. A mobile communication system comprising at least:

 movable terminal;

 radio base station device for making a communication with said terminal through a radio link; and

5 radio network controller for controlling said radio base station device, wherein said radio network controller has a block for controlling said radio base station device, said block being physically separated into two subblocks, such that a control dependent on a particular radio transmission scheme is performed only in one of said two subblocks.

9. A mobile communication system comprising at least:

 movable terminal;

radio base station device for making a communication with said terminal through a radio link; and

5 radio network controller for controlling said radio base station device, wherein said radio network controller is physically separated into first control means for performing a control independent of any radio transmission scheme, and second control means for performing a control dependent on a particular radio transmission scheme.

10. A mobile communication system comprising at least:

movable terminal;

radio base station device for making a communication with said terminal through a radio link; and

5 radio network controller for controlling said radio base station device,

wherein said radio network controller comprises first control means for controlling a transfer of user data associated with said terminal, and second control means physically separated from said first control means
10 for controlling a transfer of a control signal or signalling, said second control means having a radio transmission scheme dependent control function.

11. A mobile communication system comprising at least:

movable terminal;

radio base station device for making a communication with said terminal through a radio link; and

5 radio network controller for controlling said radio base station

- device,
- wherein said radio network controller comprises:
- first control means for performing a control related to terminal resources for said terminal; and
- second control means physically separated from said first control means, for performing a control related to base station resources for said radio base station device.
- 10 12. A mobile communication system according to claim 9, wherein:
- said first control means comprises at least:
- common radio resource managing means for managing a radio access network environment to optimize a network load; and
- mobile controller for establishing and releasing a communication channel, and
- said second control means comprises at least:
- cell controller for controlling a permission to a radio access to each radio base station device, as well as congestion and assignment of said each radio base station device;
- cell communication gateway for transmitting individual radio channel signals and multiplexing/demultiplexing common radio channel signals; and
- user radio gateway for performing encryption and decryption of radio channels, compression of a header, multiplexing/demultiplexing, and a retransmission control.
- 15

13. A mobile communication system according to claim 10, wherein:
- said first control means comprises at least:
- common radio resource managing means for managing a radio access network environment to optimize a network load; and
- mobile controller for establishing and releasing a communication channel, and
- said second control means comprises at least:
- cell controller for controlling a permission to a radio access to each radio base station device, as well as congestion and assignment of said each radio base station device;
- cell communication gateway for transmitting individual radio channel signals and multiplexing/demultiplexing common radio channel signals; and
- user radio gateway for performing encryption and decryption of radio channels, compression of a header, multiplexing/demultiplexing, and a retransmission control.
14. A mobile communication system according to claim 11, wherein:
- said first control means comprises at least:
- common radio resource managing means for managing a radio access network environment to optimize a network load; and
- mobile controller for establishing and releasing a communication channel, and
- said second control means comprises at least:
- cell controller for controlling a permission to a radio access to

- each radio base station device, as well as congestion and assignment of
10 said each radio base station device;
- cell communication gateway for transmitting individual radio
channel signals and multiplexing/demultiplexing common radio channel
signals; and
- user radio gateway for performing encryption and decryption of
15 radio channels, compression of a header, multiplexing/demultiplexing, and a
retransmission control.
15. A method of controlling a radio base station device in a radio
network controller, said method comprising the steps of:
physically separating a block for controlling said radio base station
device into two subblocks; and
5 performing a control dependent on a particular radio transmission
scheme only in one of said two subblocks.
16. A method of controlling a radio base station device in a radio
network controller, said method comprising the steps of:
controlling said radio base station device independently of any
radio transmission scheme in first control means; and
5 controlling said radio base station device depending on particular
radio transmission scheme in second control means physically separated
from said first control means.
17. A method of controlling a radio base station device in a radio

- network controller, said radio network controller having first control means for controlling a transfer of a control signal or signalling, and second control means physically separated from said first control means for controlling a transfer of user data related to a movable terminal, said method comprising the step of:
- 5

performing a control dependent on a particular radio transmission scheme only in said second control means.

18. A method of controlling a radio base station device in a radio network controller, comprising the steps of:

performing a control related to terminal resources for said terminal in first control means; and

- 5 performing a control related to base station resources for said radio base station device in second control means physically separated from first control means.

19. A method of controlling said radio base station device in a mobile communication system having at least a movable terminal, said radio base station device for making a communication with said terminal through a radio link, and a radio network controller for controlling said radio base station

- 5 device, said method comprising the steps of:

physically separating a block for controlling said radio base station device in said radio network controller into two subblocks; and

performing a control dependent on a particular radio transmission scheme only in one of said two subblocks.

20. A method of controlling said radio base station device in a mobile communication system having at least a movable terminal, a radio base station device for making a communication with said terminal through a radio link, and a radio network controller for controlling said radio base station device, comprising the steps of:

controlling said radio base station device independently of any radio transmission scheme in first control means provided in said radio network controller; and

controlling said radio base station device depending on a particular radio transmission scheme in second control means provided in said radio network controller and physically separated from said first control means.

21. A method of controlling said radio base station device in a mobile communication system having a radio network controller including first control means for controlling a transfer of a control signal or signalling, and second control means for controlling a transfer of user data related to a movable terminal, said radio network controller being configured to control a radio base station device for making a communication with said terminal through a radio link, comprising the step of:

performing a control dependent on a particular radio transmission scheme only in said second control means.

22. A method of controlling said radio base station device in a mobile

- communication system having at least a movable terminal, said radio base station device for making a communication with said terminal through a radio link, and a radio network controller for controlling said radio base station
- 5 device, comprising the steps of:
- performing a control related to terminal resources for said terminal in first control means provided in said radio network controller; and
- performing a control related to base station resources for said radio base station device in second control means provided in said radio
- 10 network controller and physically separated from first control means.